

ANALYTICAL ABSTRACTS

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ANALYTICAL ABSTRACTS

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JOURNALS

The following list contains the names of journals (and their abbreviations) from which papers have been abstracted regularly during 1972. Journals that have been omitted are those that contain only an occasional analytical paper, and a number of Russian journals from which translated abstracts have been published through the medium of *Referativnyi Zhurnal*.

The abbreviations, in italics, after the full names of the journals refer to the languages in which the journals are published.

<i>Acta chem. fenn.</i>	<i>Acta Chemica Fennica</i> [Eng.]
<i>Acta chem. scand.</i>	<i>Acta Chemica Scandinavica</i> [Eng.]
<i>Acta chim. hung.</i>	<i>Acta Chimica Academiae Scientiarum Hungaricae</i> [Eng., Ger.]
<i>Acta pharm. hung.</i>	<i>Acta Pharmaceutica Hungarica</i> [Hung.]
<i>Acta pharm. jugosl.</i>	<i>Acta Pharmaceutica Jugoslavica</i> [Serbo-Croat]
<i>Acta pharm. suec.</i>	<i>Acta Pharmaceutica Suecica</i> [Eng.]
<i>Acta Pol. pharm.</i>	<i>Acta Poloniae Pharmaceutica</i> [Pol.]
<i>Afinidad</i>	<i>Afinidad</i> [Span.]
<i>Agric. biol. Chem.</i>	<i>Agricultural and Biological Chemistry</i> [Tokyo] [Eng.]
<i>AMDEL Bull.</i>	<i>Bulletin of the Australian Mineral Development Laboratories</i> [Eng.]
<i>Am. ind. Hyg. Ass. J.</i>	<i>American Industrial Hygiene Association Journal</i> [Eng.]
<i>Analyst, Lond.</i>	<i>Analyst</i> [Eng.]
<i>Analyt. Biochem.</i>	<i>Analytical Biochemistry</i> [Eng.]
<i>Analyt. Chem.</i>	<i>Analytical Chemistry</i> [Eng.]
<i>Analytica chim. Acta</i>	<i>Analytica Chimica Acta</i> [Eng., Fr., Ger.]
<i>Analyt. Lett.</i>	<i>Analytical Letters</i> [Eng., Fr., Ger.]
<i>An. Asoc. quim. argent.</i>	<i>Anales de la Asociacion Quimica Argentina</i> [Span.]
<i>An. Bromat.</i>	<i>Anales de Bromatologia</i> [Span.]
<i>Angew. Chem., int. Edn</i>	<i>Angewandte Chemie, International Edition</i> [Eng.]
<i>Annali Chim.</i>	<i>Annali di Chimica</i> [Ital.]
<i>Annali Ist. sup. Sanita</i>	<i>Annali dell'Istituto Superiore di Sanita</i> [Eng., Fr., Ital.]
<i>Annls Chim.</i>	<i>Annales de Chimie</i> [Fr.]
<i>Annls pharm. fr.</i>	<i>Annales Pharmaceutiques Francaises</i> [Fr.]
<i>An. Quim.</i>	<i>Anales de Quimica de la Real Sociedad Espanola de Fisica y Quimica</i> [Span.]
<i>Antibiotiki</i>	<i>Antibiotiki</i> [Russ.]
<i>Appl. Optics</i>	<i>Applied Optics</i> [Eng.]
<i>Appl. Spectrosc.</i>	<i>Applied Spectroscopy</i> [Eng.]
<i>Arch. Eisenhuettenwes.</i>	<i>Archiv fuer das Eisenhuettenwesen</i> [Ger.]
<i>Arch. Pharm., Berl.</i>	<i>Archiv der Pharmazie (und Berichte der Deutschen pharmazeutischen Gesellschaft)</i> [Ger.]
<i>Ark. Kemi</i>	<i>Arkiv foer Kemi</i> [Eng.]
<i>Armyan. khim. Zh.</i>	<i>Armyanskii Khimicheskii Zhurnal</i> [Russ.]
<i>Arzneimittel-Forsch.</i>	<i>Arzneimittel-Forschung</i> [Ger.]
<i>Atom. Absorp. Newsl.</i>	<i>Atomic Absorption Newsletter</i> [Eng.]
<i>Atomn. Energ.</i>	<i>Atomnaya Energiya</i> [Russ.]
<i>Aust. J. Chem.</i>	<i>Australian Journal of Chemistry</i> [Eng.]
<i>Azerb. khim. Zh.</i>	<i>Azerbaidzhanskii Khimicheskii Zhurnal</i> [Russ.]
<i>Beitr. Tabakforsch.</i>	<i>Beitraege zur Tabakforschung</i> [Eng., Ger.]
<i>Biochem. biophys. Res. Commun.</i>	<i>Biochemical and Biophysical Research Communications</i> [Eng.]
<i>Biochem. J.</i>	<i>Biochemical Journal</i> [Eng.]
<i>Biochim. biophys. Acta</i>	<i>Biochimica et Biophysica Acta</i> [Eng.]
<i>Biochimie</i>	<i>Biochimie (formerly Bulletin de la Societe de Chimie Biologique)</i> [Fr.]
<i>Biokhimiya</i>	<i>Biokhimiya</i> [Russ.]
<i>B.I.S.R.A. Open Rep.</i>	<i>B.I.S.R.A. Open Report</i> [Eng.]
<i>Boll. Soc. ital. Biol. sper.</i>	<i>Bollettino della Societa Italiana di Biologia Sperimentale</i> [Ital.]
<i>Brauwissenschaft</i>	<i>Brauwissenschaft</i> [Ger.]
<i>Br. med. J.</i>	<i>British Medical Journal</i> [Eng.]
<i>Bull. chem. Soc. Japan</i>	<i>Bulletin of the Chemical Society of Japan</i> [Eng.]
<i>Bull. environ. Contam. Toxic.</i>	<i>Bulletin of Environmental Contamination and Toxicology</i> [Eng.]
<i>Bull. Narcot.</i>	<i>Bulletin on Narcotics</i> [Eng.]
<i>Bull. Soc. chim. Fr.</i>	<i>Bulletin de la Societe Chimique de France</i> [Fr.]
<i>Can. J. Biochem.</i>	<i>Canadian Journal of Biochemistry</i> [Eng.]
<i>Can. J. Chem.</i>	<i>Canadian Journal of Chemistry</i> [Eng., Fr.]
<i>Can. J. pharm. Sci.</i>	<i>Canadian Journal of Pharmaceutical Science</i> [Eng.]
<i>Can. Spectrosc.</i>	<i>Canadian Spectroscopy</i> [Eng., Fr.]
<i>Carbohydr. Res.</i>	<i>Carbohydrate Research</i> [Eng., Ger.]
<i>Cereal Chem.</i>	<i>Cereal Chemistry</i> [Eng.]
<i>Cereal Sci. Today</i>	<i>Cereal Science Today</i> [Eng.]
<i>Chemia analit.</i>	<i>Chemia Analityczna</i> [Eng., Fr., Ger., Pol.]
<i>Chemicke Listy</i>	<i>Chemicke Listy</i> [Czech]

Chemické Zvesti	Chemické Zvesti [Eng., Fr., Ger., Russ.]
Chemický Prum.	Chemický Prumysl [Czech]
Chemie-Ingr-Tech.	Chemie-Ingenieur-Technik [Ger.]
Chemikerzeitung—chem. Appar.	Chemiker-Zeitung—Chemische Apparatur [Ger.]
Chemistry, Taipei	Chemistry, Taipei [Chin.]
Chem. pharm. Bull., Tokyo	Chemical & Pharmaceutical Bulletin [Eng., Ger.]
Chem. Tech., Berl.	Chemische Technik [Ger.]
Chem. Br.	Chemistry in Britain [Eng.]
Chem. Ind.	Chemistry and Industry [Eng.]
Chem. analyt.	Chimie Analytique [Fr.]
Chimia	Chimia [Eng., Fr., Ger.]
Chimica Ind., Milano	Chimica e l'Industria [Ital.]
Chromatographia	Chromatographia [Eng., Fr., Ger.]
Chromat. Rev.	Chromatographic Reviews [Eng.]
Clin. Chem.	Clinical Chemistry [Eng.]
Chimica chim. Acta	Clinica Chimica Acta [Eng., Fr., Ger.]
Collection Czech. chem. Commun.	Collection of Czechoslovak Chemical Communications [Eng., Ger.]
Column	Column: Pye Unicam Chromatography Bulletin [Eng.]
Compt. Rend. Acad. bulg. Sci.	Comptes Rendus de l'Academie Bulgare des Sciences [Eng., Fr., Ger.]
Compt. Rend. Seanc. Acad. Sci., Paris	Comptes Rendus Hebdomadaires des Seances de l'Academie des Sciences [Fr.]
Croat. chem. Acta	Croatica Chemica Acta [Eng., Ger.]
Ceska Farm.	Ceskoslovenska Farmacie [Czech, Slovak]
Current Sci.	Current Science [Eng.]
Dissertationes pharm. pharmac.	Dissertationes Pharmaceuticae et Pharmacologicae [Eng.]
Dokl. Akad. Nauk SSSR	Doklady Akademii Nauk SSSR [Russ.]
Dokl. Akad. Nauk tadzhik. SSR	Doklady Akademii Nauk Tadzhikskoi SSR [Russ.]
Dokl. Akad. Nauk uzbek. SSR	Doklady Akademii Nauk Uzbekskoi SSR [Russ.]
Deutsche ApothZtg	Deutsche Apotheker-Zeitung [Ger.]
Deutsche LebensmittRdsch.	Deutsche Lebensmittel-Rundschau [Ger.]
Eczacilik Bult.	Eczacilik Bulteni [Turk.]
Environ. Sci. Technol.	Environmental Science & Technology [Eng.]
Enzymologia	Enzymologia [Eng.]
Erdoel Kohle Erdgas Petrochem. Brennst.- stoff-Chem.	Erdoel und Kohle, Erdgas, Petrochemie vereinigt mit Brennstoff-Chemie [Ger.]
Experientia	Experientia [Eng., Ger.]
Farbe und Lack	Farbe und Lack [Ger.]
Farmaceutický Obz.	Farmaceutický Obzor [Czech, Slovak]
Farmacja pol.	Farmacja Polska [Pol.]
Farmaco, Ed. prat.	Farmaco, Edizione Pratica [Fr., Ital.]
Farmaco, Ed. scient.	Farmaco, Edizione Scientifica [Eng., Ital.]
Farmatsiya, Sof.	Farmatsiya [Bulg.]
Faserforsch. TextTech.	Faserforschung und Textiltechnik [Ger.]
Fette Seifen, Anstrichmittel	Fette, Seifen, Anstrichmittel [Ger.]
Flavour Ind.	Flavour Industry (formerly Perfumery and Essential Oil Record) [Eng.]
Fuel, Lond.	Fuel [Eng.]
Geochim. cosmochim. Acta	Geochimica et Cosmochimica Acta [Eng.]
Getreide Mehl	Getreide und Mehl [Ger.]
Gidrokhim. Mater.	Gidrokhimicheskie Materialy [Russ.]
Gig. Sanit.	Gigiena i Sanitariya [Russ.]
Glas-Instrumenten-Technik. Fachzeitschrift fuer das Laboratorium	Glas-Instrumenten-Technik. Fachzeitschrift fuer das Laboratorium [Eng., Ger.]
Grasas Aceit.	Grasas y Aceites [Span.]
Helv. chim. Acta	Helvetica Chimica Acta [Fr., Ger.]
Herba pol.	Herba Polonica [Pol.]
Health Phys.	Health Physics [Eng.]
Hoppe-Seyler's Z. physiol. Chem.	Hoppe-Seyler's Zeitschrift fuer physiologische Chemie [Ger.]
Hutn. Listy	Hutnicke Listy [Czech]
Indian J. appl. Chem.	Indian Journal of Applied Chemistry [Eng.]
Indian J. Biochem.	Indian Journal of Biochemistry [Eng.]
Indian J. Chem.	Indian Journal of Chemistry [Eng.]
Indian J. Dairy Sci.	Indian Journal of Dairy Science [Eng.]
Indian J. Pharm.	Indian Journal of Pharmacy [Eng.]
Indian J. Technol.	Indian Journal of Technology [Eng.]
Industrie agr.	Industrie Agrarie [Ital.]
Informacion Quim. analit. pura apl. Ind.	Informacion de Quimica Analitica, Pura y Aplicada a la Industria [Span.]

<i>Int. J. appl. Radiat. Isotopes</i>	International Journal of Applied Radiation and Isotop [Eng., Ger.]
<i>Int. Sug. J.</i>	International Sugar Journal [Eng.]
<i>Isotopenpraxis</i>	Isotopenpraxis [Ger.]
<i>Israel J. Chem.</i>	Israel Journal of Chemistry [Eng.]
<i>Ital. J. Biochem.</i>	Italian Journal of Biochemistry [Eng.]
<i>Izv. Akad. Nauk beloruss. SSR, Ser. khim. Nauk</i>	Izvestiya Akademii Nauk Belorusskoi SSR, Seriya Khim cheskikh Nauk [Russ.]
<i>Izv. Akad. Nauk kazakh. SSR, Ser. khim.</i>	Izvestiya Akademii Nauk Kazakhskoi SSR, Seriya Khim cheskaya [Russ.]
<i>Izv. Akad. Nauk latv. SSR, Ser. khim.</i> ..	Izvestiya Akademii Nauk Latviiskoi SSR, Seriya Khim cheskaya [Russ.]
<i>Izv. Akad. Nauk SSSR, Ser. khim.</i> ..	Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya [Russ.]
<i>Izv. sib. Otdel. Akad. Nauk SSSR</i>	Izvestiya Sibirskogo Otdeleniya Akademii Nauk SSSR [Russ.]
<i>Izv. tomsk. politekh. Inst.</i>	Izvestiya Tomskogo Politeknicheskogo Instituta imen S. M. Kirova [Russ.]
<i>Izv. vyssh. ucheb. Zaved., Khim. khim. Tekhnol.</i>	Izvestiya Vysshikh Uchebnykh Zavedenii, Khimiya i Khim cheskaya Tekhnologiya [Russ.]
<i>J. agric. Fd Chem.</i>	Journal of Agricultural and Food Chemistry [Eng.]
<i>J. Air Pollut. Control Ass.</i>	Journal of the Air Pollution Control Association [Eng.]
<i>J. Am. Oil Chem. Soc.</i>	Journal of the American Oil Chemists' Society [Eng.]
<i>J. Am. Wat. Wks Ass.</i>	Journal of the American Water Works Association [Eng.]
<i>Japan Analyst</i>	Japan Analyst [Jap.]
<i>J. appl. Chem. Biotechnol.</i>	Journal of Applied Chemistry and Biotechnology [Eng.]
<i>J. Ass. off. analyt. Chem.</i>	Journal of the Association of Official Analytical Chemist [Eng.]
<i>J. Ass. publ. Analysts</i>	Journal of the Association of Public Analysts [Eng.]
<i>J. chem. Soc. (A, B, C)</i>	Journal of the Chemical Society (Sections A, B, C) [Eng.]
<i>J. chem. Soc. Japan, pure Chem. Sect.</i> ..	Journal of the Chemical Society of Japan, Pure Chemist Section [Jap.]
<i>J. Chem. un. Arab Repub.</i>	Journal of Chemistry of the United Arab Republic [Eng.]
<i>J. Chin. chem. Soc., Taipei</i>	Journal of the Chinese Chemical Society [Eng.]
<i>J. Chromat.</i>	Journal of Chromatography [Eng., Fr., Ger.]
<i>J. chromat. Sci.</i>	Journal of Chromatographic Science [Eng.]
<i>J. clin. Path.</i>	Journal of Clinical Pathology [Eng.]
<i>J. Dairy Res.</i>	Journal of Dairy Research [Eng.]
<i>J. Dairy Sci.</i>	Journal of Dairy Science [Eng.]
<i>J. electroanalyt. Chem.</i>	Journal of Electroanalytical Chemistry and Interfacial Electro chemistry [Eng.]
<i>J. electrochem. Soc.</i>	Journal of the Electrochemical Society [New York] [Eng.]
<i>Jena Rev.</i>	Jena Review [Eng.]
<i>J. Fd Sci.</i>	Journal of Food Science [Eng.]
<i>J. forens. Sci.</i>	Journal of Forensic Sciences, U.S.A. [Eng.]
<i>J. forens. Sci. Soc.</i>	Journal of the Forensic Science Society, U.K. [Eng.]
<i>J. Indian chem. Soc.</i>	Journal of the Indian Chemical Society [Eng.]
<i>J. inorg. nucl. Chem.</i>	Journal of Inorganic & Nuclear Chemistry [Eng.]
<i>J. Inst. Brew.</i>	Journal of the Institute of Brewing [Eng.]
<i>J. Inst. Fuel</i>	Journal of the Institute of Fuel [Eng.]
<i>J. Inst. Metals</i>	Journal of the Institute of Metals [Eng.]
<i>J. Instn Chem., India</i>	Journal of the Institution of Chemists (India) [Eng.]
<i>J. Inst. Petrol.</i>	Journal of the Institute of Petroleum [Eng.]
<i>J. Iron Steel Inst.</i>	Journal of the Iron and Steel Institute [Eng.]
<i>J. Lab. clin. Med.</i>	Journal of Laboratory and Clinical Medicine [Eng.]
<i>J. labell. Compounds</i>	Journal of Labelled Compounds [Eng., Fr., Ger.]
<i>J. less-common Metals</i>	Journal of the Less-Common Metals [Eng.]
<i>J. Lipid Res.</i>	Journal of Lipid Research [Eng.]
<i>J. Paint Technol.</i>	Journal of Paint Technology [Eng.]
<i>J. Pharm. Belg.</i>	Journal de Pharmacie de Belgique [Fr.]
<i>J. Pharm. Pharmac.</i>	Journal of Pharmacy and Pharmacology [Eng.]
<i>J. pharm. Sci.</i>	Journal of Pharmaceutical Sciences [Eng.]
<i>J. Phys. D, appl. Phys.</i>	Journal of Physics D, Applied Physics [Eng.]
<i>J. Phys. E, scient. Instrum.</i>	Journal of Physics E, Scientific Instruments [Eng.]
<i>J. Polym. Sci. (A, B)</i>	Journal of Polymer Science (Parts A, B) [Eng.]
<i>J. prakt. Chem.</i>	Journal fuer praktische Chemie [Eng., Ger.]
<i>J. radioanalyt. Chem.</i>	Journal of Radioanalytical Chemistry [Eng., Fr., Ger.]
<i>J. Res. natn. Bur. Stand.</i>	Journal of Research of the National Bureau of Standards [Eng.]
<i>J. Sci. Fd Agric.</i>	Journal of the Science of Food and Agriculture [Eng.]
<i>J. Soc. Leath. Trades Chem.</i>	Journal of the Society of Leather Trades' Chemists [Eng.]
<i>J. Wat. Pollut. Control Fed.</i>	Journal of the Water Pollution Control Federation [Eng.]
<i>Kemija Ind.</i>	Kemija u Industriji [Serbo-Croat]
<i>Klin. Wschr.</i>	Klinische Wochenschrift [Ger.]
<i>Lab. Pract.</i>	Laboratory Practice [Eng.]
<i>Lait</i>	Lait [Fr.]

Lancet	..	..	..	Lancet [Eng.]
Latv. PSR Zinat. Akad. Vest., Kim. Ser.	..	..	..	Latvijas PSR Zinatnu Akademija Vestis, Kimija Serija
see under	..	..	..	see under
Latv. Akad. Nauk latv. SSR, Ser. khim.	..	..	..	Izvestiya Akademii Nauk Latvii SSR, Seriya Khimicheskaya [Russ.]
Limnol. Oceanogr.	..	..	..	Limnology and Oceanography [Eng.]
Lipids	..	..	..	Lipids [Eng.]
Magy. kem. Foly.	..	..	..	Magyar Kemiai Folyoirat [Hung.]
Magy. Kem. Lap.	..	..	..	Magyar Kemikusok Lapja [Hung.]
Meddel. norsk farm. Selsk.	..	..	..	Meddelelser fra Norsk Farmaceutisk Selskap [Eng., Ger.]
Med. Lab. Technol.	..	..	..	Medical Laboratory Technology [Eng.]
Metal Finish.	..	..	..	Metal Finishing [Eng.]
Metalloberflaeche	..	..	..	Metalloberflaeche [Ger.]
Metallurgia Metal Form.	..	..	..	Metallurgia, and Metal Forming (formerly Metallurgia, Manchester)
Metallurgia ital.	..	..	..	Metallurgia Italiana [Ital.]
Meth. Phys. Analyse	..	..	..	Methodes Physiques d'Analyse [Fr.]
Microchem. J.	..	..	..	Microchemical Journal [Eng.]
Mikrochim. Acta	..	..	..	Mikrochimica Acta [Eng., Fr., Ger.]
Mitt. Geb. Lebensmittelunters. u. Hyg.	..	..	..	Mitteilungen aus dem Gebiete der Lebensmitteluntersuchung und Hygiene [Ger.]
Mitt. Rebe Wein, Obstb. Fruechteverwert.	..	..	..	Mitteilungen (Klosterneuberg). Rebe und Wein, Obstbau und Fruechteverwertung [Ger.]
Monatsschr. Brau.	..	..	..	Monatsschrift fuer Brauerei [Ger.]
Nahrung	..	..	..	Nahrung [Ger.]
Nature, Lond.	..	..	..	Nature [Eng.]
Naturwissenschaften	..	..	..	Naturwissenschaften [Eng., Ger.]
Nauch. Trudy tashkent. Univ.	..	..	..	Nauchnye Trudy Tashkentского Universitet [Russ.]
Neftekhimiya	..	..	..	Neftekhimiya [Russ.]
Neue Huette	..	..	..	Neue Huette [Ger.]
N. Z. J. Sci.	..	..	..	New Zealand Journal of Science [Eng.]
Optics Spectrosc., N.Y. [Optika Spektrosk.]	..	..	..	Optics and Spectroscopy [English translation of Optika i Spektroskopiya]
Path. Biol., Paris	..	..	..	Pathologie et Biologie [Fr.]
Periodica polytech. chem. Engng	..	..	..	Periodica Polytechnica, Chemical Engineering [Eng., Ger.]
Perkin-Elmer Instrum. News	..	..	..	Perkin-Elmer Instrument News [Eng.]
Pestic. Sci.	..	..	..	Pesticide Science [Eng.]
Pharm. Acta Helv.	..	..	..	Pharmaceutica Acta Helvetiae [Eng., Fr., Ger.]
Pharmazie	..	..	..	Pharmazie [Ger.]
Pharm. J.	..	..	..	Pharmaceutical Journal [Eng.]
Pharm. Weekbl. Ned.	..	..	..	Pharmaceutisch Weekblad voor Nederland [Dutch, Eng., Ger.]
Plaste Kautsch.	..	..	..	Plaste und Kautschuk [Ger.]
Plast. Massy	..	..	..	Plasticheskie Massy [Russ.]
Powder Technol.	..	..	..	Powder Technology [Eng.]
Proc. Am. Soc. Brew. Chem.	..	..	..	Proceedings. American Society of Brewing Chemists [Eng.]
Proc. Soc. analyt. Chem.	..	..	..	Proceedings of the Society for Analytical Chemistry [Eng.]
Prof. Pap. U.S. geol. Surv.	..	..	..	Professional Papers. United States Geological Survey [Eng.]
Prum. Potravín	..	..	..	Prumysl Potravín [Czech, Slovak]
Pure appl. Chem.	..	..	..	Pure and Applied Chemistry [Eng., Fr., Ger.]
Pyrethrum Post	..	..	..	Pyrethrum Post [Eng., Fr.]
Radiochem. radioanalyt. Lett.	..	..	..	Radiochemical and Radioanalytical Letters [Eng.]
Radiochim. Acta	..	..	..	Radiochimica Acta [Eng., Fr., Ger.]
Radiokhimiya	..	..	..	Radiokhimiya [Russ.]
Rapp. CEA	..	..	..	Rapport. Commissariat a l'Energie Atomique [Fr.]
Recueil Trav. chim. Pays-Bas	..	..	..	Recueil des Travaux Chimiques des Pays-Bas [Eng.]
Rep. atom. Energy Commn U.S.	..	..	..	Report. Atomic Energy Commission, United States [Eng.]
Rep. Invest. U.S. Bur. Mines	..	..	..	Report of Investigations. United States Bureau of Mines [Eng.]
Rep. natn. Inst. Metall.	..	..	..	Report. National Institute for Metallurgy [Eng.]
Rep. U.K. atom. Energy Auth.	..	..	..	Report. United Kingdom Atomic Energy Authority [Eng.]
Rep. Warren Spring Lab.	..	..	..	Report of the Warren Spring Laboratory, Stevenage [Eng.]
Resonance Lines	..	..	..	Resonance Lines [Eng.]
Rev. Coal Tar Technol.	..	..	..	Review of Coal Tar Technology [Eng.]
Rev. scient. Instrum.	..	..	..	Review of Scientific Instruments [Eng.]
Revta Agroquim. Tecnol. Aliment.	..	..	..	Revista de Agroquimica y Tecnologia de Alimentos [Span.]
Revta Asoc. bioquim. argent.	..	..	..	Revista de la Asociacion Bioquimica Argentina [Span.]
Revta Chim.	..	..	..	Revista de Chimie [Rom.]
Revta Farm. Bioquim. Univ. S Paulo	..	..	..	Revista de Farmacia e Bioquimica da Universidade de Sao Paulo [Port.]
Revta Metal.	..	..	..	Revista de Metalurgia [Span.]
Revta port. Quim.	..	..	..	Revista Portuguesa de Quimica [Port., Span.]

<i>Revta Soc. quim. Mex.</i>	<i>Revista de la Sociedad Quimica de Mexico</i> [<i>Span.</i>]
<i>Revta Univ. ind. Santander</i>	<i>Revista de la Universidad Industrial de Santander</i> [<i>Span.</i>]
<i>Revue roum. Chim.</i>	<i>Revue Roumaine de Chimie</i> [<i>Eng., Fr., Ger.</i>]
<i>Ricerca scient.</i>	<i>Ricerca Scientifica</i> [<i>Ital.</i>]
<i>Riv. ital. Sostanze grasse</i>	<i>Rivista Italiana delle Sostanze Grasse</i> [<i>Ital.</i>]
<i>Roczn. Chem.</i>	<i>Roczniki Chemii</i> [<i>Eng., Fr., Ger., Pol.</i>]
<i>Roczn. panst. Zakl. Hig.</i>	<i>Roczniki Panstwowego Zakladu Higieny</i> [<i>Pol.</i>]
<i>Ropa Uhlie</i>	<i>Ropa a Uhlie</i> [<i>Czech, Slovak</i>]
<i>Scand. J. clin. Lab. Invest.</i>	<i>Scandinavian Journal of Clinical & Laboratory Investigation</i> [<i>Eng.</i>]
<i>Scientia pharm.</i>	<i>Scientia Pharmaceutica</i> [<i>Ger.</i>]
<i>Sci. Tools</i>	<i>Science Tools</i> [<i>Eng.</i>]
<i>Sepn Sci.</i>	<i>Separation Science</i> [<i>Eng.</i>]
<i>Soil Sci.</i>	<i>Soil Science</i> [<i>Eng.</i>]
<i>Spec. Publs natn. Bur. Stand.</i>	<i>Special Publications. National Bureau of Standards</i> [<i>Eng.</i>]
<i>Spectrochim. Acta</i>	<i>Spectrochimica Acta</i> [<i>Eng., Fr., Ger.</i>]
<i>Spectrosc. Lett.</i>	<i>Spectroscopy Letters</i> [<i>Eng.</i>]
<i>Spectrovision</i>	<i>Spectrovision</i> [<i>Eng.</i>]
<i>Staub, Reinhalt. Luft</i>	<i>Staub, Reinhaltung der Luft</i> [<i>Ger.</i>]
<i>Steroids</i>	<i>Steroids</i> [<i>Eng.</i>]
<i>Studia Univ. Babes-Bolyai, Ser. Chem.</i>	<i>Studia Universitatis Babes-Bolyai, Series Chemia</i> [<i>Rom.</i>]
<i>Studii Cerc. Chim.</i>	<i>Studii si Cercetari de Chimie</i> [<i>Rom.</i>]
<i>Svensk PappTidn.</i>	<i>Svensk Papperstidning</i> [<i>Eng., Ger.</i>]
<i>Talanta</i>	<i>Talanta</i> [<i>Eng., Fr., Ger.</i>]
<i>TAPPI</i>	<i>TAPPI</i> [Journal of the Technical Association of the Pulp and Paper Industry] [<i>Eng.</i>]
<i>Technology, Sindri</i>	<i>Technology</i> [<i>Eng.</i>]
<i>Tenside</i>	<i>Tenside</i> [<i>Ger.</i>]
<i>Trans. Instn Min. Metall.</i>	<i>Transactions of the Institution of Mining and Metallurgy</i> [<i>Eng.</i>]
<i>Trav. Soc. Pharm. Montpellier</i>	<i>Travaux de la Societe de Pharmacie de Montpellier</i> [<i>Fr.</i>]
<i>Trib. CEBEDEAU</i>	<i>Tribune de CEBEDEAU</i> [Centre Belge d'Etude et de Documentation des Eaux] [<i>Fr.</i>]
<i>Trudy Khim. khim. Tekhnol. [Gor'kii]</i>	<i>Trudy po Khimii i Khimicheskoi Tekhnologii</i> [<i>Russ.</i>]
<i>Trudy mosk. khim-tekhrol. Inst.</i>	<i>Trudy Moskovskogo Khimiko-Tekhnologicheskogo Instituta imeni D. I. Mendeleeva</i> [<i>Russ.</i>]
<i>Trudy vses. nauchno-issled. Inst. khim. Reakt.</i>	<i>Trudy Vsesoyuznogo Nauchno-issledovatel'skogo Instituta Khimicheskikh Reaktivov</i> [<i>Russ.</i>]
<i>Uchen. Zap. azerb. gos. Univ., Ser. khim. Nauk</i>	<i>Uchenye Zapiski Azerbaidzhanskogo Gosudarstvennogo Universiteta, Seriya Khimicheskikh Nauk</i> [<i>Russ.</i>]
<i>Uchen. Zap. perm. gos. Univ.</i>	<i>Uchenye Zapiski Permskogo Gosudarstvennogo Universiteta imeni M. Gor'kogo</i> [<i>Russ.</i>]
<i>Ukr. khim. Zh.</i>	<i>Ukrainskii Khimicheskii Zhurnal</i> [<i>Russ.</i>]
<i>Uzbek. khim. Zh.</i>	<i>Uzbekskii Khimicheskii Zhurnal</i> [<i>Russ.</i>]
<i>Vest. leningr. gos. Univ., Fiz., Khim.</i>	<i>Vestnik Leningradskogo Gosudarstvennogo Universiteta, Fizika, Khimiya</i> [<i>Russ.</i>]
<i>Vest. mosk. gos. Univ., Ser. Khim.</i>	<i>Vestnik Moskovskogo Gosudarstvennogo Universiteta, Seriya Khimiya</i> [<i>Russ.</i>]
<i>Wat. Res.</i>	<i>Water Research</i> [<i>Eng.</i>]
<i>Wat. Sewage Wks</i>	<i>Water & Sewage Works</i> [<i>Eng.</i>]
<i>Z. analyt. Chem.</i>	<i>Zeitschrift fuer analytische Chemie</i> [<i>Eng., Ger.</i>]
<i>Z. anorg. allg. Chem.</i>	<i>Zeitschrift fuer anorganische und allgemeine Chemie</i> [<i>Ger.</i>]
<i>Zav. Lab.</i>	<i>Zavodskaya Laboratoriya</i> [<i>Russ.</i>]
<i>Z. Chemie, Lpz.</i>	<i>Zeitschrift fuer Chemie</i> [<i>Ger.</i>]
<i>Zentbl. Pharm., Pharmakother. u. Lab.-diagnostik</i>	<i>Zentralblatt fuer Pharmazie, Pharmakotherapie und Laboratoriums-diagnostik</i> [<i>Ger.</i>]
<i>Z. Erzbergb. MetallhuettWes.</i>	<i>Zeitschrift fuer Erzbergbau und Metallhuettenwesen</i> [<i>Ger.</i>]
<i>Zh. analit. Khim.</i>	<i>Zhurnal Analiticheskoi Khimii</i> [<i>Russ.</i>]
<i>Zh. obshch. Khim.</i>	<i>Zhurnal Obshchei Khimii</i> [<i>Russ.</i>]
<i>Zh. prikl. Khim., Leningr.</i>	<i>Zhurnal Prikladnoi Khimii</i> [<i>Russ.</i>]
<i>Zh. prikl. Spektrosk.</i>	<i>Zhurnal Prikladnoi Spektroskopii</i> [<i>Russ.</i>]
<i>Z. klin. Chem. klin. Biochem.</i>	<i>Zeitschrift fuer klinische Chemie und klinische Biochemie</i> [<i>Eng., Ger.</i>]
<i>Z. Lebensmittelunters. u. -Forsch.</i>	<i>Zeitschrift fuer Lebensmittel-Untersuchung und -Forschung</i> [<i>Ger.</i>]
<i>Z. med. Labortech.</i>	<i>Zeitschrift fuer medizinische Labortechnik</i> [<i>Ger.</i>]

ACKNOWLEDGEMENTS

The organisations publishing the following journals, or their own abstracts, are thanked for allowing production of some abstracts.

Abstract Bulletin of the Institute of Paper Chemistry
 British Food Manufacturing Industries Research Association Abstracts
 Chemical Abstracts
 Flour Milling and Baking Research Association Abstracts
 Fuel Abstracts and Current Titles
 International Sugar Journal
 Journal of the Institute of Brewing
 Journal of the Institute of Petroleum
 Lead Abstracts
 Nuclear Science Abstracts
 Nutrition Abstracts and Reviews
 APRA Abstracts
 Referativnyi Zhurnal, Biologicheskaya Khimiya, Section 30F
 Referativnyi Zhurnal, Khimiya, Section 19GD
 Water Pollution Abstracts
 Welwyn Hall Research Association Abstracts
 World Aluminum Abstracts
 World Surface Coatings Abstracts
 World Textile Abstracts
 Zinc Abstracts

ERRATA

Some errata subsequently published in the journals abstracted are included in the following list. When the initials of given names in the Author Index and in the abstracts do not agree, the Index should be assumed to be correct.

VOL. 18, 1970

- Index, p. 3, column 1, line 14, for **Starchik, L. W.** read **Starchik, L. P.**
- Index, p. 177, column 2, lines 12 and 13, for (*Propiophenone, 3-piperidino-4'-propoxy-*) read {*Piperidinium chloride, 1-[2-(4-propoxybenzoyl)ethyl]-*.}
- Index, p. 218, column 1, line 65, for **4-[2-(4-propoxybenzoyl)-** read **1-[2-(4-propoxybenzoyl)-**
- Index, p. 222, column 2, lines 13 and 14, for {*Piperidinium chloride, 4-[2-(4-propoxybenzoyl)ethyl]-*.} read {*Piperidinium chloride, 1-[2-(4-propoxybenzoyl)ethyl]-*.}

VOL. 19, 1970

Abstract

No.	Line
53	23 for 3672 read 2983

VOL. 21, 1971

- Index, p. 14, column 2, lines 19, 20, 21 and 22, replace this entry by
 - and **Canterford, D. R.** Interference of lithium in atomic-absorption spectrometry, 3227.
 - and **Canterford, J. H.** Analysis by a.c. polarography in presence of, e.g., iron^{III}, 4549.
- Index, p. 17, column 1, line 61, for **Brusser, W.** read **Brueser, W.**
- Index, p. 19, column 2, line 22, for 3227, 4549. read 3227.
- Index, p. 19, column 2, insert entry **Canterford, J. H.** See **Bond, A. M.**, 4549. after entry for **Canterford, D. R.**
- Index, p. 22, column 1, line 31, for **Nobel, R. C.**, read **Noble, R. C.**,
- Index, p. 33, column 1, line 23, for **Judito**, read **Judit**.
- Index, p. 48, column 1, line 23, this line should read—**Higashiyama, K.**, and **Date, K.** Ceramic mem-
- Index, p. 51, column 2, line 7, this line should read chemistry, *Book*: Dec. Photochemistry—3:
- Index, p. 83, column 2, line 67, for **Nishimura, Masakichi**, read **Nishimura, Masakichi**,
- Index, p. 92, column 2, line 14, for polyhydroxyflavones read polyhydroxyflavones
- Index, p. 100, column 2, line 32, for **Sazonov, M. I.** read **Sazonov, M. L.**
- Index, p. 109, column 2, line 31, for **Kreile, R.** read **Kreile, D.**
- Index, p. 111, column 2, line 43, this line should read cyanides, 2672; II. Determination of *cis*- and
- Index, p. 120, column 1, line 74, for **Kkarkover, M. Z.** read **Kharkover, M. Z.**

VOL. 21, 1971

Index, p. 129, column 1, line 51, *for Sazonov, M. I., read Sazonov, M. L.*

Index, p. 190, column 1, line 1, *for Iodine, read Iodide,*

Index, p. 196, column 1, lines 25 and 26, *replace these lines by*

Lead alloys, see also *Wood's metal*

detmn. of Sn in, atomic-absorption spectroph., 3331

Index, p. 230, column 2, line 58, *delete* 3242

Index, p. 232, column 1, line 25, *delete* cadion IREA

Index, p. 232, column 1, line 27, *delete* 1087,

Index, p. 237, column 1, line 66, *for Sinaptic acid, read Sinapic acid,*

Index, p. 250, column 1, lines 14, 15, 16 and 17, *replace these lines by*

in tin-plate by electrolysis - atomic absorption spectroph., 4045

in diffusion zone, X-ray diffraction, 4102

in water, spectrogr., 1539

Abstract

No.	Line
430	2 <i>for</i> R. Wilogan <i>read</i> R. W. Logan
939	5, 6 <i>for Rep. atom. Energ. Commn U.S., NRL-7146, read N.R.L. Rep. 7146,</i>
4078	2 <i>for</i> (II) , <i>read</i> (III) .
4078	14 <i>for</i> I <i>read</i> II. <i>and for</i> 18, 2216 <i>read</i> 19, 15
4410	18 <i>for</i> 1.3% <i>read</i> 3%

Appropriate modifications should be made to the author Index for Vol. 21, 1971.

VOL. 22, 1972

Abstract

No.	Line
55	5 <i>for</i> percholate <i>read</i> perchlorate
146	3 <i>for</i> Pavel Ganchev <i>read</i> Pavel Ganey
491	6 <i>this line should read</i> steel tube, which is heated to 100° by the passage of
629	3 <i>for</i> Dijck, G. van; <i>read</i> Dyck, G. van;
717	3 <i>for</i> trihydroxyfluorone <i>read</i> trihydroxyfluorones
717	7 <i>insert a after</i> With
717	18 <i>for</i> trihydroxyfluorone <i>read</i> phenylfluorone
848	5 <i>for</i> 253-254 <i>read</i> 254-255
1138	2 <i>for</i> cuinosol <i>read</i> chinosol
1138	8 <i>for</i> cuinosol <i>read</i> chinosol
1358	4 <i>insert</i> <i>Appl. Optics</i> , before 1971,
1393	2 <i>for</i> Fratucello, Giovannij <i>read</i> Fratucello, Giovanni;
1397	<i>the abstract after</i> No. 1397 <i>should be numbered</i> 1398, not 8139
1961	2 <i>for</i> Fairbrother, R. <i>read</i> Fairweather, R.
2079	16 <i>insert</i> Sn <i>before</i> 3175
2183	1 <i>for</i> throium <i>read</i> thorium
2234	3 <i>for</i> Shemkyavichute, G. <i>read</i> Simkeviciute, G.
2238	12 <i>for</i> (R10 μ g) <i>read</i> (<10 μ g)
2508	8, 9 <i>for</i> primulin (the 3-galactoside of malvidin chloride) <i>read</i> primuline (C.I. Direct Yellow 59)
3063	10 <i>for</i> 25-g samples <i>read</i> 35-g samples
3323	6 <i>this line should read</i> The method of Driscoll <i>et al</i> (cf. 'Exploration of
3741	1 <i>for</i> 2 5-kilometre <i>read</i> 2.5-kilometre
3810	58 <i>for</i> Nadai, F. de <i>read</i> De Nadai, F.
4017	13 <i>for</i> 660 nm <i>read</i> 600 nm
4267	14 <i>for</i> methanolic <i>read</i> methanol
4338	8 <i>for</i> cyclio <i>read</i> cyclic
4659	1 <i>insert</i> I; II. <i>after</i> spectrophotometry.

ABBREVIATIONS AND SYMBOLS

Certain abbreviations in everyday use are not included in the following list. When any doubt might arise from the use of an abbreviation or symbol the word is printed in full.

adenosine 5'-monophosphate	AMP	millilitre	ml
adenosine 5'-pyrophosphate	ADP	millimetre	mm
adenosine 5'-triphosphate	ATP	millimolar	mm
alternating current	a.c.	millivolt	mV
ampere	amp.	minute (time)	min.
Ångström unit	Å	molar (concentration)	M
approximate, -ly	approx.	molar extinction coefficient	ϵ
aqueous	aq.	molecul-e, -ar	mol.
boiling-point	b.p.	nanogram	ng
centimetre	cm	nanometre (not millimicron)	nm (not $m\mu$)
coefficient	coeff.	nicotinamide-adenine dinucleotide (oxidised form)	NAD ⁺
Colour Index (3rd Edition)	C.I.	nicotinamide-adenine dinucleotide (reduced form)	NADH
concentrated	conc.	normal (concentration)	N
concentration	concn.	nuclear magnetic resonance	n.m.r.
constant (as adjective)	const.	optical rotation	α
crystalline	} cryst.	parts per million	p.p.m.
crystallised		per cent.	%
curie	Ci	per cent. (vol. in vol.)	% (v/v)
current density	c.d.	per cent. (wt. in vol.)	% (w/v)
density, relative	d or wt. per ml	per cent. (wt. in wt.)	% (w/w)
deoxyribonucleic acid	DNA	poly(tetrafluoroethylene)	PTFE
diameter, inside	i.d.	potential difference	p.d.
diameter, outside	o.d.	precipitate (as a noun)	ppt.
differential thermal analysis	d.t.a.	precipitated	pptd.
dilute (as adjective)	dil.	precipitating	pptg.
direct current	d.c.	precipitation	pptn.
electron spin resonance	e.s.r.	preparation	prep.
electron volt	eV	recrystallised	recryst.
equivalent	equiv.	refractive index	n_d^T
ethylenediaminetetra-acetate	EDTA	relative band speed	R_F
gas-liquid chromatography	g.l.c.	relative humidity	r.h.
gas-solid chromatography	g.s.c.	revolutions per minute	r.p.m.
gram	g	ribonucleic acid	RNA
gram-molecule	mole	saponification value	sap. val.
half-wave potential	$E_{\frac{1}{2}}$	saturated (as adjective)	satd.
hertz	Hz	saturated calomel electrode	S.C.E.
hour	hr.	second (time)	sec.
infra-red	i.r.	soluble	sol.
insoluble	insol.	solution	soln.
international unit	i.u.	specific rotation	$[\alpha]_D^{25}$
ionic strength	I	square centimetre	sq. cm
kilogram	kg	standard temp. and pressure	s.t.p.
kilovolt	kV	thin-layer chromatography	t.l.c.
kilowatt	kW	ultra-violet	u.v.
mass spectrometry	m.s.	unit of pressure (mm Hg)	torr
maxim-um, -a	max.	volt	V
microgram	μg (not γ)	volume	vol.
microlitre	μl	watt	W
micrometre (not micron)	μm (not μ)	wavelength	λ
micromole	μmole	weight	wt.
milliampere	mA		
milli-equivalent	m-equiv.		
milligram	mg		

(continued overleaf)

ABBREVIATIONS AND SYMBOLS

(continued from previous page)

In addition to the symbols listed overleaf, the following may be used in conjunction with numerical values or in mathematical expressions—

greater than	>	of the order of, approximately	$\approx$
less than	<	equivalent to	$\equiv$

Abbreviations of journal titles used in the abstracts are, in general, those of the 'World List of Scientific Periodicals' (4th edn, 1964, Butterworths, London), but all diacritical marks are omitted, and the German ä, ö and ü and the Scandinavian ø (or ö) are transliterated as ae, oe, ue and oe, respectively.

The language in which an original paper is written is English unless otherwise specified.

The chemical nomenclature used in the abstracts is that recommended by The Chemical Society ('Handbook for Chemical Society Authors,' The Chemical Society, London, 1961), and may differ from that used in the original articles.

When possible, drugs are specified by their official B.P. or B.P.C. names, or by the Approved Names recommended by the British Pharmacopoeia Commission (8 Bulstrode St., London, W1M 5FT).

The principal Pharmacopoeias are denoted by B.P., U.S.P., or D.A.B., together with the identifying roman numeral or year.

The names given to enzymes are those recommended by the International Union of Biochemistry ('Enzyme Nomenclature,' Elsevier Publishing Co., London, 1965).

Pesticides are named in accordance with the British Standard 1831 : 1969, 'Recommended Common Names for Pesticides' (British Standards Institution, 2 Park St., London, W1A 2BS).

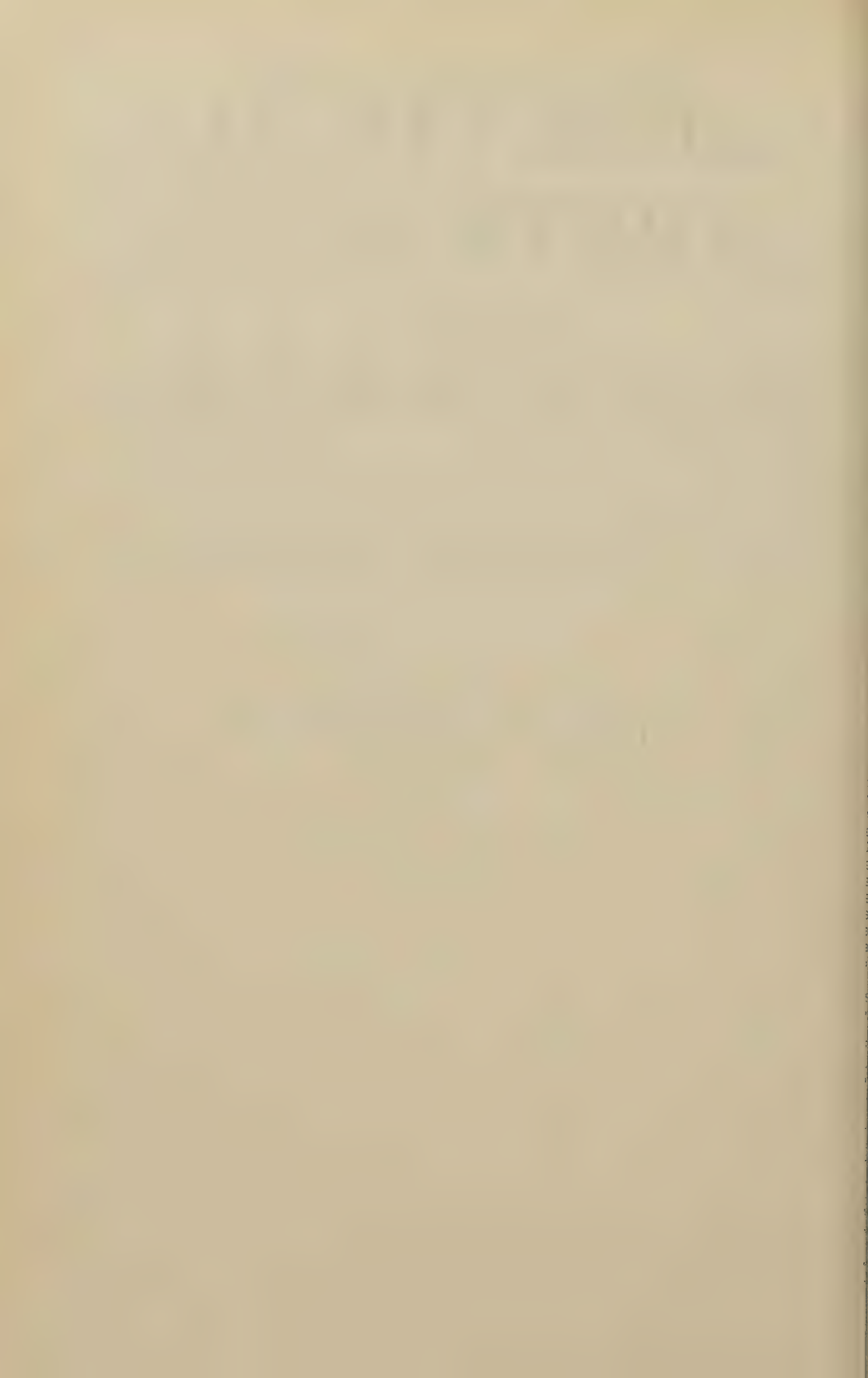
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